

## METHODS OF TREATING BLADDER DISORDERS

### Abstract of the Invention

5           Methods of treating bladder disorders, including bladder cancer and inflammatory  
bladder diseases such as interstitial cystitis are disclosed. The methods include  
identifying a mammal that has or is at risk for having a bladder disorder and  
administering isolated nucleic acid sequences to the mammal. Nucleic acids used in the  
methods of the invention contain unmethylated CpG sequences, which are thought to  
10       modulate the immune response. Also included are methods that use nucleic acids  
encoding alpha-MSH. The nucleic acid sequences may be administered individually or  
together or can be included in the same nucleic acid.

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